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**An exosome-based translational strategy to mitigate Alzheimer's disease neuropathology**

**Grant Award Details**

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An exosome-based translational strategy to mitigate Alzheimer's disease neuropathology

**Grant Type:** Inception - Discovery Stage Research Projects

**Grant Number:** DISC1-10079

**Project Objective:** This project will determine the effectiveness of a potentially transformational stem cell based therapy—human stem cell derived exosomes—to ameliorate the neuropathologies associated with AD.

**Investigator:**

**Name:** Janet Baulch

**Institution:** University of California, Irvine

**Type:** PI

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**Disease Focus:** Alzheimer's Disease, Neurological Disorders

**Human Stem Cell Use:** Embryonic Stem Cell

**Award Value:** \$157,650

**Status:** Active

**Grant Application Details**

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**Application Title:** An exosome-based translational strategy to mitigate Alzheimer's disease neuropathology

**Public Abstract:****Research Objective**

These studies will determine whether stem cell derived exosomes (nano-scale vesicles) can be used to treat the symptoms of Alzheimer's disease (AD).

**Impact**

Our stem cell-derived exosome therapy will provide a viable approach to ameliorate the relentless progression of AD that severely impacts quality of life for millions of patients and their families.

**Major Proposed Activities**

- Evaluate whether exosome therapy can reduce the symptoms of early stage AD including anxiety, depression, and learning and memory.
- Evaluate whether exosome therapy can reduce the symptoms of advanced stage AD including anxiety, depression, and learning and memory.
- Determine whether exosome therapy can slow the appearance of AD related changes typically observed in the early stage AD brain.
- Determine whether exosome therapy can reduce the appearance of AD related changes typically observed in the advanced stage AD brain.

**Statement of Benefit to California:**

In the US, California has the most cases of AD, a burden on patients, their families, and the health care system. As such, AD is an unmet medical need that requires new therapies to improve disease management. This project tests a transformational idea—human stem cell derived exosome therapy. These studies will identify a novel stem cell-based strategy and a viable approach to impede the progression of AD and its symptoms that severely impact quality of life for patients and their families.

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